This is a CONTROLLED DOCUMENT **EG&G - ROCKY FLATS PLANT**

ENVIRONMENTAL MANAGEMENT This is a RED Stamp

ROCKY FLATS PLANT **EMD OPERATING** PROCEDURES MANUAL

Manual No.: Procedure No.:

Table of Contents, Rev 3

5-21200-OPS-EE

Page: **Effective Date:**

1 of 2 09/01/92

Organization:

Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO) VOLUME II: GROUNDWATER (GW) VOLUME III: GEOTECHNICAL (GT) VOLUME IV: SURFACE WATER (SW) VOLUME V: ECOLOGY (EE) **VOLUME VI: AIR (AP)**

TABLE OF CONTENTS FOR VOLUME V: ECOLOGY

Procedure <u>No.</u>	Title	Rev. No.	Effective Date
EE.01	Sampling of Periphyton	1	5/91
EE.02	Sampling of Benthic Macroinvertebrates	1	5/91
DCN 92.01	Clarification of Benthic Macroinvertebrates	1	09/01/92
EE.03	Sampling of Plankton	1	5/91
EE.04.	Sampling of Fishes	1	5/91
DCN.92.01	Add Paper Scale Envelopes	1	09/01/92
DCN 92.02	Clarification of Fish Sampling	1	09/01/92
DCN 92.03	Clarification of Fish Sampling	1	09/01/92
DCN 92.04	Clarification of Fish Sampling	1	09/01/92
DCN 92.05	Clarification of Fish Sampling	1	09/01/92
EE.05	Sampling of Large Mammals	1	5/91
EE.06	Sampling of Small Mammals	1	5/91
EE.07	Sampling of Birds	1	5/91

DOCUMENT CLASSIFICATION REVIEW WAIVER PER PR. HOFFMAN, CLASSIFICATION CEN

37.241, 1.31

Date

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Organization: **Environmental Management**

Procedure No.	Titie	Rev. <u>No</u> ,	Effective <u>Date</u>
EE.08	Sampling of Reptiles and Amphibians	1	5/91
EE.09	Sampling of Terrestrial Arthropods	1	5/91
EE.10	Sampling of Vegetation	1	5/91
DCN 91.01	Superseded by DCN # 92.01	1	08/11/92
DCN 92.01	To Clarify Methods for Conducting Vegetation Surveys	1 .	08/11/92
EE.11	Identification of Habitat Types	1	5/91
EE.12	Sampling of Soil for Soil Description	1	5/91
EE.13	Development of Ecology Field Sampling Plans	1	5/91
DCN 91.01	Superseded by DCN # 92.01	1	08/11/92
DCN 92.01	The Outline for a Field Sampling Plan is Modified	1	08/11/92
APPA	Appendix A: Species Codes Assignment of Species Codes	1	5/91
АРРВ	Appendix B: Wildlife Habitat Code Assignment of Wildlife Habitat Codes	1	5/91

ENVIRONMENTAL MANAGEMENT

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EG&G - ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT

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User

If Yes, by what date?

Date posted

Page 1 of _

Title Th	is is a REC	Stamp				Date	DCN Number
ampling o	of Benthic	Macroinvertebi	rates			8)24/92	920100
Expires_//	124/92		Procedure	Revision Req	uired	Yes No	
Scope Lim	itation: Q	<u>U 3</u>					
Item Number	Page	Step or Paragraph	J)	Jse DCN CO	Change NTINUATION SI	s HEET for additional	space)
1	13	6.3.2	Delete "distilled"	in the fifth b	ullet.		
2	13	6.3.3	Replace the first	sentence wit	the following:		
			squirt bo	ottle and disti	led, tap, or local	tub into the sample water, according to the not introduced into	ne project FSP,
				-			
		·					,
Justification	n (Reason	for change - Pr	ovide numbers to	reference com	esponding items a	ibove.)	
san	nple in the	benthic wash		rring the sam	ple to the sample	ould be acceptable fo jar. For some specifier.	
2. Sar	ne as 1.					an <i>0</i>	
Conce	rtenge	Organiz	zation Req.	Date	concurrence)	1 organization	Req. Date

X

Date,

Is Posting required?

Yes

No

QAPM

EOM

Approval of Responsible Manager

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Procedure Number <u>EE.4, Rev ø, 5-21200 -OPS</u>

Title						Date		DCN Numl	
Sar	npling of	Fishes				8\24\92		220	1 KQ.M.
Expires	11/24/9	2	Pro	ocedure Revi	sion Required	X Yes	☐ No		
Scope Lin	nitation	OU-3			a a				
	,								
ltem Number	Page	Step or Paragraph		(Use Do	ON CONTINU	Changes ATION SHEET	for Addit	tional Spac	e)
1	5	5.0	Add	or scale en	velopes" to the	end of the six	kth bullet.		
,									
									•
									1
1									
Justificatio	on (Reas	on for Change	- Provide Nu	mbers To Re	ference Corre	sponding Item	s Above)		
	er scale (/elope.	envelopes are	adequate, if s	cales are pla	ced within a li	ner to prevent	the scale	s from adh	ering to the
	•								
,	.//								
Concern	pice	Organizatio	n Req	Date	Gongurrend	e Organ	nizetion	Req	Date
MX	m	QAPM	Х	9/1/92	MULA	U	ser	Х	8/25/92
M. bron	user	EOM	×	8/28/98	リン				, ,
// A		11/00		/		10 1/34	1411		
11/10/hx	Respon	sible Manage	Date	25/92	Is Posting Re	qd? If Yes, B No	y What D	ate?	Date Posted
A Fórm 001	/			/					

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Procedure Number EE.4, Rev.6, 5-21200-OPS

Title					1	Date	DCN Num	,
Sar	npling of	Fishes				8\24\92	1 82.02	Kam.
Expires _	11/24/9	2	Pr	ocedure Rev	ision Required	X Yes N	0	
Scope Lin	nitation	OU-3			<u></u>			
ltem Number	Page	Step or Paragraph		(Use Do		Changes TION SHEET for A	dditional Spa	сө)
1	2	2.0	In last s	sentence of t	ne second paraç	ıraph, replace "larç	ger fish" with	"fish may".
				÷.				
								.t
								•
1 -100 - 11	- 10							
Justificatio	n (Heas	on for Change	- Provide Nu	mbers to Re	terence Corresp	onding Items Abov	/e)	
1.					pending upon th ze range should	e objectives state	d in the FSP.	If scales are
ř	00110010	a for agonong	ui 14005, 11511	nom charc si	ze range snoule	De 0360.		
								i
Sort /	$\frac{1}{2}$	Organizatio	n I Bar	Data	d-A-A-	• 1 /00-ani-atio	_	T Data
Concurre	OCB			Date	Concurrence			Date
1//0/	/	QAPM	X	7/1/92	Mehre -	User	X	8/25/92
M.C. Bu	nusae	EOM	X	8/28/95				,
		·						
								
Approval b	Respon	gible Manage	Date	25/92	Is Posting Requ	i? If Yes, By Wha	t Date?	Date Posted
/// / // CN / of m 001		<u> </u>		[- / ,	LI LES LIN	<u> </u>		

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Title						Date		lumber	
Sar	mpling of	Fishes		·		8\24\92		<u>123</u>	KU,M
Expires _	11/24/9	2	Pr	ocedure Rev	ision Required		No		
Scope Lin	nitation	OU-3							
Item Number	Page	Step or Paragraph		(Use Do		Changes ATION SHEET for	Additional S	Space)	
1	6	6.2.1	In the third s	entence, ado	i "lake or" befo	re "pond" and "by	floats or" be	efore "b	y stakes".
									,
Justificatio	n (Reas	on for Change	- Provide Nu	mbers To Re	ference Corre	sponding Items At	ove)	<u> </u>	
1.	The only	way to mark	a sampling lo	cation within	the the lakes is	s by floats becaus	e of the dep	th.	
Congun	rol	Organizatio	on Req	Date	Concurrence	e Organiza	tion Re	q	Pate
110	7-	QAPM	X	9/1/8	All War	User	×	8,	125/42
M.C.B.	ousag	EOM	×	7/28/92	l' /				
Approvat o	Flospon	sible Manage	r Date	25/92	Is Posting Re	qd? If Yes, By W	hat Date?	Da	te Posted

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This is a RED Stamp

Procedure Number <u>EE.4, Rev ø, 5-21200-OPS</u>

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Title Sar	npling of	Eichoe				Date 8\24\92	DCN N	1umber 2,04 <i>KQ,</i> 74
				rocoduro Boy	rision Required	l		XIGH KU,M
Expires	11/24/97	<u> </u>	r.	ocedule nev	nsion nequired	X Yes	Ľ 140	
Scope Lin	nitation	OU-3						
		<u></u>		· · · · · · · · · · · · · · · · · ·				
tem Vumber	Page	Step or Paragraph		(Use D	CN CONTINU	Changes ATION SHEET	for Additional S	pace)
1	7	6.2.3	Add the fol	llowing sente	nce after the fi	fth sentence :		
			lf a b towar	lock net is us rds the blocki	sed, electrofish ing net.	ing may proce	ed upstream or o	downstream,
								л
								ı
stificatio	n (Reaso	on for Change	– Provide Nu	mbers To Re	eference Corre	sponding Items	s Above)	
	If a block	king net is use	d, electrofishi	ing could be	conducted eith	er upstream or	downstream.	
_/,	4//					·		
Concurr	rice /	Organizatio	n Req	Date	Concument	e) (Organ	nization Re	q Date
11	1	QAPM	Х	9/1/82	11/6/2	U	ser X	8/25/9
MAR	X	EOM	×	5/20/04	**** <u>-</u>			175/
	CHALLES !			100/19				
1				V				
	<u>A</u>	:01.40-	- 6	 	le Bestine De		· Whet Date	Dete Destart
NONE ALON	rvespon	sible Marager	Date	25/97		qd? If Yes, B	y what Date?	Date Posted
Folylogn		<u> </u>	/ _	/ , _	<u></u>		<u>-</u> -	

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Procedure Number EE.4 Rev g, 5-21200-OPS

Title					ام	ate	DCN Nun	, <u>-</u>		
Sa	ampling o	f Fishes			-	8/21/92	920	5 K.O.M		
Expires	11/21/92		Р	rocedure Rev	rision Required	X Yes No				
Scope Lin	nitation	OU-3								
ocope Lin	·····alion	00-3								
Item Number	Page	Step or Paragraph		/Llon D	CAL CONTINUES	Changes				
	 	Faragraphi		(Ose D	CN CONTINUAT	ION SHEET for Add	itional Spa	(Ce)		
1	8	6.2.5	In the first p	In the first paragraph, delete "weight" in the second sentence and add the following afte the second sentence:						
				Weight would be recorded for individuals of the more common species, and for all fish saved for tissue analyses.						
2	8	6.2.5		n the first paragraph, fifth sentence, add "or scale envelopes" after "glassine envelopes" and replace "sample number assigned" with "information needed to tie the scales."						
				me replace sample number assigned with intermetion needed to the the seates.						
								, 1		
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İ		1								
ustificatio	n /Reaso	n for Change	– Provide Nu	mhers To Re	ierence Correspo	onding Items Above				
,	(, ,0450	in lor Gridingo	7 10100 110		ici ciice oonespo	maing items Above;	,			
						ry individual fish. I 50 or more fathead		very time		
COIL	oumme, to	or example, to	, weight all like	IIVIGGES II III	c catch included .	oo or more ramead	miniows.			
					very fish. In these data sheet prepare	cases, the data on ed for that catch.	the scale er	nvelope should		
Concurre	759	Organizatio	n Req	Date	Concurrence	Organization	Req	Date		
Mit	7-	QAPM	X	7/1/2	Meller	User	Х	8/25/92		
M.C.Box	regard	EOM	X	8/28/96	10			16		
11000	- course			0/00/7/		- 		 		
<u></u>							 			
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7/1/11 V	Respond	sible Manager	Date /	25/92	Is Posting Reqd' Yes No		Date?	Date Posted		
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Title						Date	DCN Nui	mber
Sa	mpling o	f Fishes			,•	8/21/92		
Expires	11/21/92		P	rocedure Rev	rision Required	X Yes No)	
Scope Lin	nitation	OU-3						
item Number	Page	Step or Paragraph 4		(Use D	CN CONTINUA	Changes ATION SHEET for Ac	lditional Spa	ice)
3	- 8	6.2.5	In the first p	paragraph, th	rd sentence fro	m the bottom, add ",	plastic bags,	" after "teflon
4	8	6.2.5	In the first p	paragraph, thi	rd sentence fro	m the bottom, add *,	fresh ice," a	fter "Blue Ice."
						•		
	i							. 4
		٠					1	
1								
Justificatio	n (Reasc	on for Change	– Provide Nu	mbers To Re	ference Corres	ponding Items Above	e)	
Fish co	ollected f	or radiologica	il or metals ai	nalvses mav b	e placed in plas	tic bags rather than	in teflon bas	zs or aluminum
foil.				,	·		`	
Fresh	ish are r	nore effective	ly cooled in th	ne field by us	ing fresh ice. S	amples should be sea	aled in plast	ic bags or
alumin	um foil j	prior to being	iced.					
Congula	ńce	Organizatio	n Req	Date	Concurrence	e Organization	Req	Date
1/10/		QAPM	X	9/1/87	////Ww	User	X	8/25/92
M.C.B	ousal	ЕОМ	Х	8/28/96				7-7-
								
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pprøval of	Respon	sible Manager	Date	125/92		d? If Yes, By What	Date?	Date Posted
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CONTROLLED DOCUMENT EG&G - ROCKY FLATS PLANT ENVIRONMENTAL MANAGEMENT CONTROLLED DOCUMENT CHANGE NOTICE (DCN) ENVIRONMENTAL MANAGEMENT This is a RED Stamp Procedure Alice Control Procedure Control

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Title		 				Date		DCN Nun	nber
Sa	mpling o	f Fishes				8/21/92			
Expires _	11/21/92		Pi	rocedure Re	vision Required	X Yes	☐ No		
Scope Lin	nitation	OU-3							
Item Number	Page	Step or Paragraph		(Use D	CN CONTINU	Changes ATION SHEET	for Addit	ional Spa	ce)
5	8	6.2.5	In the first p	aragraph, re	place the secon	d to the last se	ntence wi	th the fol	lowing:
			being (who 48 he radio	g taken to the ble body, must ours after co onuclides may	e laboratory (i scle, or other o llection. Tissu	te cooler for no f local) or place ryans) should be samples to be d up to 48 hou.	e in a refr e prepare analyzed	rigerator. ed and fro for meta	Tissue samples zen within 4 to ls or
			Also, add "Fr	ozen" to bef	ore "Fish" and	delete "field" in	the last	sentence.	,
6	8	6.2.5	In the second	l paragraph,	first sentence,	delete "ice-cold.	•		
Justificatio	n (Reaso	n for Change	- Provide Nu	mbers To Re	ference Corre	sponding Items	Above)		
witho 6) Fish p	ut impaci	ting the analy	ses.		· ·	eld on ice or re	-		·
Concurte	DC9	Organizatio	n Req	Date	#gncy/ren	Organ	ization	Req	Date
	/1	QAPM	X	9/1/5/		-/10-	er	X	8/25/92
MCS	omen	ЕОМ	Х	X/21/a					127/2
pproved of	Flesbohs	lple Manage	Date	25/92	Is Posting Re	qd? If Yes, By No	What Da	ate?	Date Posted